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Dated: August 18, 2004 Signature:

*Maura Gallagher*  
(Maura Gallagher)

Docket No.: SION-P06-021  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re Patent Application of:  
Miller et al.

Application No.: 10/797466

Confirmation No.: 3341

Filed: March 10, 2004

Art Unit: 2881

For: SYSTEMS FOR DIFFERENTIAL ION  
MOBILITY ANALYSIS

Examiner: Not Yet Assigned

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (SIDS)**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Supplemental Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

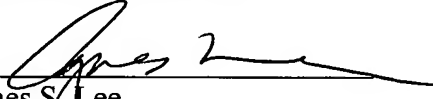
In accordance with 37 CFR 1.97(g), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Supplemental Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Supplemental Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. SION-P06-021. A duplicate copy of this paper is enclosed.

Dated: August 18, 2004

Respectfully submitted,

By   
Agnes S. Lee

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PTO/SB/21 (04-04)

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/797,466
	Filing Date	March 10, 2004
	First Named Inventor	Raanan A. Miller
	Art Unit	2881
	Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	Attorney Docket Number	SION-P06-021

**ENCLOSURES (Check all that apply)**

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Receipt Postcard		
<table border="1"><tr><td>Remarks</td><td>Change of Attorney Docket Number Request also included.</td></tr></table>			Remarks	Change of Attorney Docket Number Request also included.
Remarks	Change of Attorney Docket Number Request also included.			

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	ROPES & GRAY LLP Agnes S. Lee - 46,862
Signature	
Date	8/18/04

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Dated: 8-18-04 Signature Maura Gallagher (Maura Gallagher)

Application No. (if known): 10/797466

Attorney Docket No.: SION-P06-021

**Certificate of Mailing under 37 CFR 1.8**

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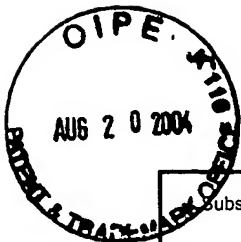
Information Disclosure Statement (2 pages)  
IDS (PTO Form 1449 Citations) (2 pages)  
References (A1-A22), (B1-B10), (C1-C15)  
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Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>			<b>Complete if Known</b>		
			Application Number	10/797466	
			Filing Date	March 10, 2004	
			First Named Inventor	Raanan A. Miller	
			Art Unit	2881	
			Examiner Name	Not Yet Assigned	
Sheet	1	of	2	Attorney Docket Number	SION-P06-021

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A1	2,615,135	10/21/52	Glenn, Jr., W.E.	
	A2	3,511,986	05/12/70	P.M. Llewellyn	
	A3	3,621,240	11/15/71	Cohen, et al.	
	A4	3,931,589	01/06/76	Aisenberg, et al.	
	A5	4,025,818	05/24/77	Giguere, et al.	
	A6	4,201,921	05/06/80	McCorkle	
	A7	5,218,203	June-93	Eisele, et al.	
	A8	5,536,939	07/16/96	Freidhoff, et al.	
	A9	5,654,544	08/05/97	Dresch	
	A10	5,723,861	03/03/98	Camahan, et al.	
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	A12	5,789,745	08/04/98	Martin, et al.	
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	A14	5,838,003	11/17/98	Bertsch, et al.	
	A15	5,869,344	02/09/99	Linforth, et al.	
	A16	5,965,882	10/12/99	Megerle, et al.	
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	A19	6,618,712	09/09/03	Parker, et al.	
	A20	6,621,077	09/16/2003	Guevremont et al.	
	A21	US 2003/0020012A1	01/30/03	Guevremont, et al.	
	A22	US 2003/0038235A1	02/27/03	Guevremont, et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	† <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B1	WO 97/38302	10/16/1997	Mine Safety Appliances		
	B2	SU 966583	10/15/1982	Gorshkov, M.P.		
	B3	SU 1337934A2	09/15/1987	Buryakov, I.		
	B4	SU 1412447A1	06/20/1998	Buryakov, I., et al.		
	B5	SU 1485808	10/06/1998	Buryakov, I., et al.		
	B6	WO 01/22049A2	03/29/2001	Haley, L., et al.		
	B7	WO 02/071053A	09/09/2002	The Charles Stark Draper Laboratory		
	B8	WO 02/083276A1	10/24/2002	The Charles Stark Draper Laboratory		
	B9	WO 03/005016 A1	01/16/2003	Sionex Corporation		
	B10	WO 2003/015120 A1	02/20/2003	Sionex Corporation		

Examiner Signature		Date Considered	
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PTO/SB/08a/b (08-03)

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/797466
				Filing Date	March 10, 2004
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				Art Unit	2881
				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	SION-P06-021

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C1	BARNETT, D.A. et al., "Isotope Separation Using High-Field Asymmetric Waveform Ion Mobility Spectrometry," Nuclear Instruments & Methods in Physics Research (2000), pp 179-185, 450(1).	
	C2	BURYAKOV, I.A. et al., "A New Method of Separation of Multi-Atomic Ions by Mobility at Atmospheric Pressure Using a High-Frequency Amplitude-Asymmetric Strong Electric Field," International Journal of Mass Spectrometry and Ion Processes (1993), pp 143-148, 128.	
	C3	BURYAKOV, I.A. et al., "Separation Ions According to Mobility in a Strong AC Electric Field," Sov. Tech. Phs. Lett. (1991), pp 446-447, 17(6).	
	C4	BURYAKOV, I.A. et al., Device and Method For Gas Electrophoresis, Chemical Analysis fo Environment, edit. Prof. V.V. Malakhov, Novosibirsk; Nauka (1991), pp 113-127.	
	C5	CARNAHAN, B. et al., "Field Ion Spectrometry - A New Analytical Technology for Trace Gas Analysis," ISA, (1996), pp 87-96, 51(1).	
	C6	CARNAHAN, B. et al., "Field Ion Spectrometry - A New Technology for Cocaine and Heroin Detection," SPIE, (1997), pp 106-119, 2937.	
	C7	GUEVREMONT, R. et al., "Calculation of Ion Mobilities From Electrospray Ionization High Field Asymmetric Waveform Ion Mobility Spectrometry Mass Spectrometry," Journal of Chemical Physics, (2001), pp 10270-10277, 114(23).	
	C8	JAVAHERY, G. et al., A Segmented Radiofrequency-Only Quadrupole Collision Cell for Measurements of Ion Collision Cross Section on a Triple Quadrupole Mass Spectrometer, J. Am. Soc. Mass. Spectrom., (1997), pp 697-702, 8.	
	C9	KRYLOV, E.V., "A Method of Reducing Diffusion Losses in a Drift Spectrometer," Technical Physics, (1999), pp 113-16, 4d(1).	
	C10	KRYLOV, E.V., "Pulses of Special Shapes Formed on a Capacitive Load," Instruments and Experimental Techniques, (1997), pp 628, 40(5).	
	C11	MILLER, R.A., et al. "A novel micromachined high-fielded asymmetric wave-ion mobility spectrometer," Sensors and Actuators B 67 (2000), pp 300-306,	
	C12	PILZECKER, P. et al., "On-Site Investigations of Gas Insulated Substations Using Ion Mobility Spectrometry for Remote Sensing of SF6 Decomposition," IEEE, (2000), pp 400-403.	
	C13	RIEGNER, D.E., et al., "Qualitative Evaluation of Field Ion Spectrometry for Chemical Warfare Agent Detection," Proceedings of the ASMS Conference on Mass Spectrometry and Allied Topics, (June 1997), pp 473A-473B.	
	C14	SCHNEIDER, A. et al., High Sensitivity GC-FIS for Simultaneous Detection of Chemical Warfare Agents, Mine Safety Appliances Co., Pittsburgh, PA, USA, (2000), AT-Process, pp 124-136, 5(3,4), CODEN: APJCFR ISSN: 1077-419X.	
	C15	"A Micromachined Field Driven Radio Frequency-Ion Mobility Spectrometer for Trace Level Chemical Detection," A Draper Laboratory Proposal Against the "Advanced Cross-Enterprise Technology Development for NASA Missions," Solicitation, NASA NRA 99-OSS-05.	

Examiner Signature		Date Considered	
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